

535,629

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/053156 A1

- (51) International Patent Classification⁷: **C12Q 1/68**
- (21) International Application Number:
PCT/EP2003/013905
- (22) International Filing Date: 8 December 2003 (08.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02447248.2 6 December 2002 (06.12.2002) EP
- (71) Applicants (*for all designated States except US*): **INNO-GENETICS N.V.** [BE/BE]; Technologiepark 6, B-9052 Ghent (BE). **ROCHE DIAGNOSTICS GMBH** [DE/DE]; Sandhofer Strasse 116, 68305 Mannheim (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **DE HENAU, Hilde** [BE/BE]; Kobengeertsstraat 81, Box 2, B-9120 Beveren-Waas (BE). **VAN CROMBRUGGEN, Joachim** [BE/BE]; Bochtstraat 5, B-2550 Kontich (BE). **JANNES, Geert** [BE/BE]; E. Vanhoorenbekelaan 23/1, B-Leuven 3010 (BE). **HABERHAUSEN, Gerd** [DE/DE]; Kapellenwiese 35, 82377 Penzberg (DE). **EMRICH, Thomas** [DE/DE]; Blombergstrasse 7, 82393 Iffeldorf (DE).
- (74) Common Representative: **INNOGENETICS N.V.**; Intellectual Property Department, Industriepark Zwijnaarde 7, Box 4, B-9052 Ghent (BE).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: DETECTION, IDENTIFICATION AND DIFFERENTIATION OF EUBACTERIAL TAXA USING A HYBRIDIZATION ASSAY

(57) Abstract: The present invention relates to a method for the specific detection and/or identification of *Enterococcus* species, in particular *Enterococcus faecalis* and/or *Enterococcus faecium*, using new nucleic acid sequences derived from the ITS (Internal Transcribed Spacer) region. The present invention relates also to said new nucleic acid sequences derived from the ITS region, between the 16S and 23S ribosomal ribonucleic acid (rRNA) or rRNA genes, to be used for the specific detection and/or identification of *Enterococcus* species, in particular of *Enterococcus faecalis* and/or *Enterococcus faecium*, in a biological sample. It relates also to nucleic acid primers to be used for the amplification of said spacer region of *Enterococcus* species in a sample.

WO 2004/053156 A1